

## SEQUENCE LISTING

&lt;110&gt; SBL Vaccin AB

&lt;120&gt; Expression System

&lt;130&gt; 110116401

&lt;160&gt; 13

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 2759

&lt;212&gt; DNA

&lt;213&gt; Plasmid pMT -ctxBthyA-2

<400> 1  
 ctcgagggtt gttcctgatt ggttacggcg cgtttcgcat cattgttgag tttttcggcc 60  
 agcccgacgc gcagtttacc ggtgcctggg tgcagtacat cagcatgggg caaattcttt 120  
 ccatcccgat gattgtcgcg ggtgtgatca tgatggctcg ggcatatcgt cgcagccac 180  
 agcaacacgt ttcctgagga accatgaaac agtatttaga actgatgcaa aaagtgctcg 240  
 acgaaggcac acagaaaaac gaccgtaccg gaaccggaac gctttccatt tttggtcac 300  
 agatgcggtt taacctgcaa gatggattcc ggctggtgac aactaaacgt tgccacctgc 360  
 gttccatcat ccatgaactg ctgtgggttc tgcagggcga cactaacatt gcttatctac 420  
 acgaaaacaa tgtcaccatc tgggacgaat gggccgatga aaacggcgac ctcgggccag 480  
 tgtatggtaa acagtggcgc gcctggccaa cgccagatgg tcgtcatatt gaccagatca 540  
 ctacgggtact gaaccagctg aaaaacgacc cggattcgcg ccgcattatt gtttcagcgt 600  
 ggaacgtagg cgaactggat aaaatggcgc tggcaccgtg ccatgcattc ttccagttct 660

atgtggcaga	eggcaaactc	tcttgccagc	tttatcagcg	ctcctgtgac	gtcttcctcg	720
gcctgccgtt	caacattgcc	agctacgcgt	tattggtgca	tatgatggcg	cagcagtgcg	780
atctggaagt	gggtgatttt	gtctggaccg	gtggcgacac	gcacatctgtac	agcaaccata	840
tggatcaaac	tcacatgcaa	ttaagccgcg	aaccgcgtcc	gctgccgaag	ttgattatca	900
aacgtaaacc	cgaatccatc	ttcgactacc	gtttcgaaga	ctttgagatt	gaaggctacg	960
atccgcaccc	gggcattaaa	gcgccggtgg	ctatctaatt	acgaaacatc	ctgccagagc	1020
cgacgccagt	gtgcgtcggg	ttttttaccc	tcggttaaat	tcttcgagac	gccttcccga	1080
aattttgcaa	cgtcctgcaa	cggcgtaa	atgcgccgaa	gaaatagaaa		1140
cgtcgaatca	agcttatcga	taccgtcgac	cttgaagagc	aaggatctag	gtgaagatcc	1200
tttttgataa	tctcatgacc	aaaatccctt	aacgtgagtt	ttcgttccac	tgagcgtcag	1260
accccgtaga	aaagatcaaa	ggatcttctt	gagatccttt	ttttctgcgc	gtaatctgct	1320
gcttgcaaac	aaaaaaacca	ccgctaccag	cgggtggttg	tttgccggat	caagagctac	1380
caactctttt	tccgaaggta	actggcttca	gcagagcgca	gataccaaat	actgtccttc	1440
tagtgtagcc	gtagttaggc	caccacttca	agaactctgt	agcaccgcct	acatacctcg	1500
ctctgcta	cctgttacca	gtggctgctg	ccagtggcga	taagtcgtgt	cttaccgggt	1560
tggactcaag	acgatagtta	ccggataagg	cgcagcggtc	gggctgaacg	gggggttcgt	1620
gcacacagcc	cagcttgagg	cgaacgacct	acaccgaact	gagataccta	cagcgtgagc	1680
tatgagaaa	cgccacgctt	cccgaaggga	gaaaggcgga	caggtatccg	gtaagcggca	1740
gggtcggaac	aggagagcgc	acgagggagc	ttccaggggg	aaacgcctgg	catctttata	1800
gtcctgtcgg	gtttcgccac	ctctgacttg	atcgtcgatt	tttgtgatgc	tcgtcagggg	1860
ggcggagcct	atggaaaaac	gccagcaacg	cggccttttt	acggttcctg	gccttttgct	1920
ggccttttgc	tcacatgttc	tttctgctgt	tatcccctga	ttctgtggat	aaccgtatta	1980
ccgcctttga	gtgagctgat	accgctcgcc	gcagccgaac	gaccgagcgc	agcgagtcag	2040
tgagcgagga	agcgatggaa	gagcagatcc	gggcttatcg	actgcacggg	gcaccaatgc	2100
ttctggcgtc	aggcagccat	cggagctgtg	ggtatggctg	tgcaggtcgt	aatcactgc	2160
ataattcgtg	tcgctcaagg	cgcactcccg	ttctggataa	tgttttttgc	gccgacatca	2220
taacggttct	ggcaaatatt	ctgaaatgag	ctgttgacaa	ttaatcatcg	gctcgtataa	2280
tgtgtggaat	tgtgagcgga	taacaatttc	acacaggaaa	cagaattcgg	gatgaattat	2340
gaataaagta	aaattttatg	ttttatttac	ggcgttacta	tcctctctat	gtgcacacgg	2400

agctcctcaa aatattactg atttgtgtgc agaataccac aacacacaaa tacatacgct 2460  
 aaatgataag atattttcgt atacagaatc tctagctgga aaaagagaga tggctatcat 2520  
 tacttttaag aatggtgcaa cttttcaagt agaagtacca ggtagtcaac atatagattc 2580  
 acaaaaaaaaa gcgattgaaa ggatgaagga taccctgagg attgcatatc ttactgaagc 2640  
 taaagtcgaa aagttatgtg tatggaataa taaaacgcct catgcgattg ccgcaattag 2700  
 tatggcaaat taaactagtc aattgaagct tagcccgct aatgagcggg ctttttttt 2759

<210> 2

<211> 21

<212> PRT

<213> *Escherichia coli*

<400> 2

Met Asn Lys Val Lys Phe Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser  
 1 5 10 15

Leu Cys Ala His Gly  
 20

<210> 3

<211> 6

<212> PRT

<213> *Vibrio cholerae*

<400> 3

Thr Pro Gln Asn Ile Thr  
 1 5

<210> 4

<211> 6

<212> PRT

<213> *Vibrio cholerae*

<400> 4

Ala Pro Gln Asn Ile Thr  
1 5

<210> 5

<211> 21

<212> PRT

<213> *Escherichia coli*

<400> 5

Met Asn Lys Val Lys Cys Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser  
1 5 10 15

Leu Cys Ala Tyr Gly  
20

<210> 6

<211> 28

<212> PRT

<213> *Vibrio cholerae*

<400> 6

Met Asn Lys Val Lys Phe Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser  
1 5 10 15

Leu Cys Ala His Gly Ala Pro Gly Tyr Ala His Gly  
20 25

<210> 7

<211> 27

<212> DNA

<213> *Vibrio cholerae*

<400> 7  
gctctagagc cttagaaggc gtggttc

27

<210> 8

<211> 31

<212> DNA

<213> *Vibrio cholerae*

<400> 8  
gctctagagc tacggtcttg atttacggta t

31

<210> 9

<211> 33

<212> DNA

<213> *Escherichia coli*

<400> 9  
gggggctcga ggtttgttcc tgattgggta cgg

33

<210> 10

<211> 36

<212> DNA

<213> *Escherichia coli*

<400> 10  
gggggggtcga cgtttctatt tcttcggcgc atcttc

36

<210> 11

<211> 40

<212> DNA

<213> Vibrio cholerae

<400> 11

gggggactag ttttaatttgc cataactaatt gcgggcaatcg

40

<210> 12

<211> 41

<212> DNA

<213> Vibrio cholerae

<400> 12

gggggactag tcaattgaag ctttaagcccg cctaattgagc g

41

<210> 13

<211> 21

<212> PRT

<213> Escherichia coli

<400> 13

Met	Asn	Lys	Val	Lys	Cys	Tyr	Val	Leu	Phe	Thr	Ala	Leu	Leu	Ser	Ser
1			5					10						15	

Leu	Cys	Ala	Tyr	Gly
			20	

5

1